

208  
Comptech

complementary to the overhangs exposed on the surface of the cell, and that create an EcoRI restriction site upon ligation of the two DNA fragments.

**IN THE CLAIMS:**

Please substitute the following amended claims for the pending claims having the same claim numbers:

28. (Amended.) A method for identifying a catalyst of interest from a library of catalysts, said method comprising:

- 209
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21
- a) providing a library of catalysts comprising at least two different units, wherein each of said units comprises a catalyst attached to at least one substrate, each unit having the structure catalyst-substrate, wherein said catalyst is attached to said at least one substrate in a manner that allows a catalytic reaction to occur between said catalyst and said at least one substrate;
  - b) providing conditions suitable for said catalyst to catalyze the reaction of said at least one substrate to form one or more products, wherein at least one product of said catalytic reaction remains attached to said catalyst;
  - c) providing at least one reagent or condition which converts said at least one attached product to at least one substrate so as to regenerate said catalyst-substrate units;
  - d) repeating said b) and c) at least once; and
  - e) selecting said catalyst with the desired catalytic activity.

210  
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21

35. (Amended.) The method of claim 28, wherein said library of catalysts is a library of peptides or polypeptides.

36. (Amended.) The method of claim 35, wherein said library of peptides or polypeptides is a library of enzymes.

211  
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22  
208

54. (Amended.) The method of claim 29, wherein said catalyst and said at least one substrate are bound to a matrix, and wherein said catalyst is released from said matrix when said at least one substrate is converted to said at least one product by said catalyst.